

In the Claims

Please cancel claim 36 without prejudice. Applicants reserve the right to pursue the original subject matter in a continuing application. Please amend claims 12 and 28; and add claims 38-46 as follows.

Claims 1-11 (Cancelled)

12. (Currently Amended) A grinding machine, comprising:

- a) a mill box having opposite sides, the opposite sides of the mill box defining a grinding width, each of the sides defining an aperture;
- b) a grinding drum positioned within the mill box, the grinding drum having an axis of rotation;
- c) an anvil having a cross-section, the cross-section including a wedge-shaped portion and a rectangular portion, the wedge-shaped portion having a tapering surface extending from a first reference point to a second reference point, each of the first and second reference points being located a distance from the axis of rotation of the grinding drum, the second reference point of the tapering surface being located farther from the axis of rotation than the first reference point, the anvil being positioned within the apertures of each of the sides of the mill box, the anvil having a length greater than the grinding width of the mill box such that ends of the anvil extend beyond the sides of the mill box;
- d) wherein the tapering surface of the anvil is oriented such that the first and second reference points are horizontally aligned with one another.

13. (Previously Presented) The grinding machine of claim 12, wherein the anvil is made of a solid construction.

14. (Original) The grinding machine of claim 12, further including a mounting arrangement having clamp arms, the clamp arms being configured to secure the ends of the anvil when positioned within the apertures of each of the sides of the mill box.

15. (Original) The grinding machine of claim 12, further including a feed table for transporting material to the mill box.

16. (Original) The grinding machine of claim 15, further including a mounting arrangement, the mounting arrangement including a first support surface configured to support an end of the feed table and a second support surface configured to support the anvil.

17. (Original) The grinding machine of claim 16, wherein the second support surface is located outside of the mill box of the grinding machine.

Claims 18-27 (Cancelled)

28. **(Currently Amended)** A grinding machine, comprising:

a) a mill box having opposite sides, the opposite sides of the mill box defining a grinding width, each of the sides defining an aperture;

b) a grinding drum positioned within the mill box;

c) an anvil having a solid construction that defines a cross-section, the cross-section including a wedge portion and a rectangular portion, the wedge portion being defined by a tapering surface, the anvil being located in relation to the grinding drum such that during operation the tapering surface of the wedge portion is oriented receives the impacts of perpendicular to vertical impact forces generated by the grinding drum, the anvil being positioned within the apertures of each of the sides of the mill box, the anvil having a length greater than the grinding width of the mill box such that ends of the anvil extend beyond the sides of the mill box.

29. (Previously Presented) The grinding machine of claim 28, wherein the anvil is oriented such that a minimum clearance distance between the grinding drum and the anvil is defined between the rectangular portion of the anvil and the grinding drum.

30. (Previously Presented) The grinding machine of claim 28, further including a mounting arrangement having clamp arms, the clamp arms being configured to secure the ends of the anvil when positioned within the apertures of each of the sides of the mill box.

31. (Previously Presented) The grinding machine of claim 28, further including a feed table for transporting material to the mill box.

32. (Previously Presented) The grinding machine of claim 31, further including a mounting arrangement, the mounting arrangement including a first support surface configured to support an end of the feed table and a second support surface configured to support the anvil.

33. (Previously Presented) The grinding machine of claim 32, wherein the second support surface is located outside of the mill box of the grinding machine.

34. (Previously Presented) The grinding machine of claim 28, whereby the solid construction of the anvil eliminates stress concentrations associated with structures that weaken the structural integrity of the anvil.

35. (Previously Presented) The grinding machine of claim 12, wherein a portion of the distance between the first reference point and the axis of rotation of the grinding drum defines a minimum clearance distance between the grinding drum and the anvil.

36. **(Cancelled)**

37. (Previously Presented) The grinding machine of claim 12, wherein the anvil is located in relation to the grinding drum such that during operation, the tapering surface of the wedge-shaped portion of the anvil receives the impacts of generally perpendicular forces generated by the grinding drum.

38. (New) A grinding machine, comprising:

- a) a mill box;
- b) a grinding drum positioned within the mill box;
- c) a feed table arranged to transport material to the mill box, the feed table defining a transport plane; and
- d) an anvil having a solid construction defined by two integral portions, the two integral portions including:
 - i) a rectangular portion partly defined by a rearward surface, a first surface, and a second surface opposite the first surface, each of the first and second surfaces being generally perpendicular to the rearward surface; and
 - ii) a wedge-shaped portion partly defined by a tapering surface and the second surface;
 - iii) wherein the tapering surface of the anvil is positioned parallel with the transport plane of the feed table.

39. (New) The grinding machine of claim 38, wherein the mill box has opposite sides, the opposite sides of the mill box defining a grinding width, each of the sides defining an aperture; and wherein the anvil is positioned within the apertures of each of the sides of the mill box, the anvil having a length greater than the grinding width of the mill box such that ends of the anvil extend beyond the sides of the mill box.

40. (New) The grinding machine of claim 39, further including a mounting arrangement having clamp arms, the clamp arms being configured to secure the ends of the anvil when positioned within the apertures of each of the sides of the mill box.

41. (New) The grinding machine of claim 38, further including a mounting arrangement, the mounting arrangement including a first support surface configured to support an end of the feed table and a second support surface configured to support the anvil.

42. (New) The grinding machine of claim 41, wherein the second support surface is located outside of the mill box of the grinding machine.

43. (New) The grinding machine of claim 38, wherein the tapering surface of the anvil is oriented such that the first and second reference points are horizontally aligned with one another.

44. (New) The grinding machine of claim 38, wherein the anvil is located in relation to the grinding drum such that during operation, the tapering surface of the wedge-shaped portion of the anvil receives the impacts of generally perpendicular forces generated by the grinding drum.

45. (New) The grinding machine of claim 15, wherein the feed table defines a transport plane, the tapering surface of the anvil that extends between the first and second reference points being parallel with the transport plane.

46. (New) The grinding machine of claim 31, wherein the feed table defines a transport plane, the tapering surface defining the wedge portion of the anvil extending parallel with the transport plane.